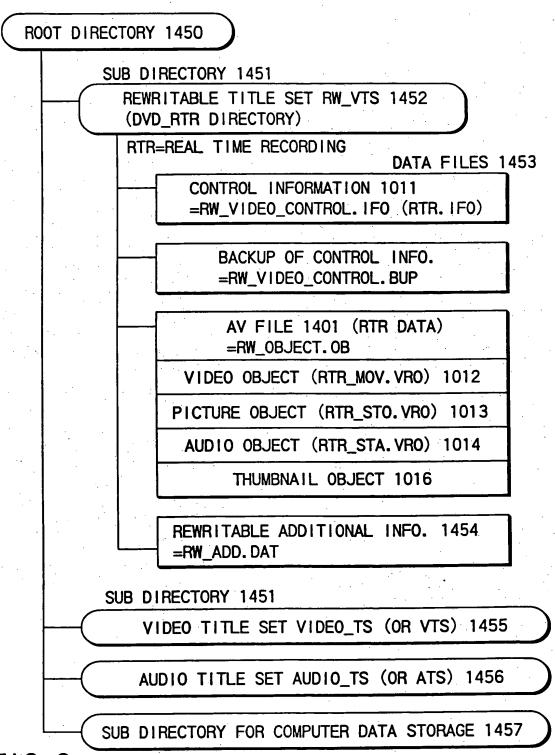
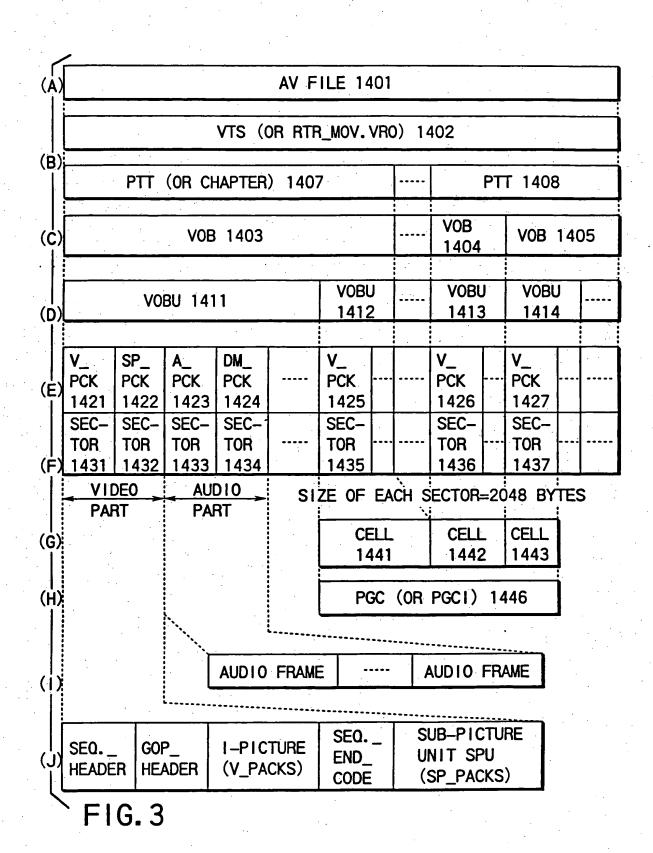
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REWRITABLE OPTICAL DISC (DVD_RTR_DISC)/1001 INNER SIDE 1006 OUTER SIDE 1007 LEAD-IN VOL. & FILE DATA AREA LEAD-OUT **AREA 1002** MANAGER 1004 AREA 1005 (B) INFO. 1003 (EMBOSSED/ (REWRITABLE (REWRITABLE REWRITABLE (REWRITABLE DATA ZONE) DATA ZONE) DATA ZONE) <u>DATA ZONE)</u> AUDIO & VIDEO COMPUTER COMPUTER (C) DATA AREA 1008 DATA AREA 1009 DATA AREA 1010 **ANCHOR** CONTROL THUMB-POINTER VIDEO PICTURE AUDIO INFO. NAIL FOR CONT-**OBJECTS OBJECTS OBJECTS** 1011 **OBJECTS** ROL INFO. 1012 1013 1014 (RTR. 1F0) 1016 1015 **PLAYBACK** AV DATA **RECORDING** EDIT THUMBNA I L CONTROL CONTROL CONTROL CONTROL CONTROL INFO. 1101 INFO. 1021 INFO. 1023 INFO. 1022 INFO. 1024 (RTR_VMG) PGC CELL ALLOC-VIDEO VIDEO TITLE SET CONTROL PLAYBACK ATION **OBJECT** (F)INFO. 1108 MAP TABLE INFO. 1106 INFO. 1107 INFO. 1103 (RTR_VMGI) (PGCI) (CI) 1105 (AVFIT)





	3	-	LSNg
	0B # (3) 1465	EXTENT # £ 1475	
	>	Ш	LSNf+1
	OED	 - -	LSNf
	ECOR AREA 1460	EXTENT # ζ 1470	
	UNB	ш	LSNe+1
		EXTENT #β 1472	LSNe
	V0B #2 1462		
AV FILE 1401	>		LSNd+1
	VOB #3 (2) 1464	XTENT #δ 1474	LSNd
	>	Ш	LSNc+1
		EXTENT #α 1471	LSNc
	VOB #1 1461		
			LSNb+2
			LSNb+1
			LSNb
	VOB #3 (1) 1463	TENT # γ 473	
	V0B (1	EXTENT # γ 1473	LSNa+2
			LSNa+1

←SMALLER LOGICAL SECTOR NUMBER (LSN) ←INNER SIDE OF OPTICAL DISC 1001

LARGER LOGICAL SECTOR NUMBER (LSN) → OUTER SIDE OF OPTICAL DISC 1001→

F16.4

CONTENTS OF ALLOCATION	NUMBER OF EXTENTS IN UNRECORDED AREA 1601	1
MAP TABLE 1105	1ST ADR. (LSN) OF 1ST EXTENT IN UNRECORDED AREA 1606	e-a
DISTRIBUTION INFORMATION OF POSITIONS OF	SIZE (SECTORS) OF 1ST EXTENT IN UNRECORDED AREA 1614	f-e
UNRECORDED AREA 1621	NUMBER OF EXTENTS IN VOB #1 1602	1
DISTRIBUTION	1ST ADR. (LSN) OF 1ST EXTENT IN VOB #1 1607	b-a
INFORMATION OF POSITIONS OF	SIZE (SECTORS) OF 1ST EXTENT IN VOB #1 1615	c-b
RECORDED DATA AS TO VOB #1 1622	NUMBER OF EXTENTS IN VOB #2 1603	1
DISTRIBUTION	1ST ADR. (LSN) OF 1ST EXTENT IN VOB #2 1608	d–a
INFORMATION OF POSITIONS OF	SIZE (SECTORS) OF 1ST EXTENT IN VOB #2 1616	e–d
RECORDED DATA AS TO VOB #2 1623	NUMBER OF EXTENTS IN VOB #3 1604	3
DISTRIBUTION INFORMATION OF	1ST ADR. (LSN) OF 1ST EXTENT IN VOB #3 1609	1
POSITIONS OF RECORDED DATA	SIZE (SECTORS) OF 1ST EXTENT IN VOB #3 1617	b-a
AS TO VOB #3 1624	1ST ADR. (LSN) OF 2ND EXTENT IN VOB #3 1610	с–а
	SIZE (SECTORS) OF 2ND EXTENT IN VOB #3 1618	d–c
	1ST ADR. (LSN) OF 3RD EXTENT IN VOB #3 1611	f–a
FIG.5	SIZE (SECTORS) OF 3RD EXTENT IN VOB #3 1619	g–f

PGC CONTROL INFO. (OR UD_PGCIT) 1103 PGC INFORMATION MANAGEMENT INFO. (OR UD_PGCIT) 1052 PGC INFORMATION PGC GENERAL INFO. SEARCH POINTER #1 (OR PGC_GI) 1061 (UD_PGCI_SRP#1) 1053 PROGRAM INFO. (PGI#1) PGC INFORMATION SEARCH POINTER #n (UD_PGCI_SRP#n) 1054 PROGRAM INFO. PGC INFORMATION #1 (PGI#m) (OR UD_PGCI#1) 1055 CELL ID #1 (OR CI_SRP#1) PGC INFORMATION #i (OR UD PGCI#i) 1056 CELL ID #m 1151 (OR CI_SRP#m) PGC INFORMATION #n CELL INFO. (CI#1) (OR UD_PGCI#n) 1057 #i=ANY ONE OF #1 TO #n CELL INFO. (CI#n)

- *1> PGC INFORMATION (OR UD_PGCI) CAN DEFINE A GROUP OF ONE OR MORE PROGRAMS:
- *2> EACH PROGRAM CAN BE FORMED OF ONE OR MORE CELLS;
- *3> EACH CELL CAN BE SPECIFIED BY CELL ID (OR CI_SRP);
- *4> EACH CELL ID (OR CI_SRP) CAN INDICATE POSITION (OR START ADDRESS) OF CELL INFORMATION (OR CI);
- *5> EACH CELL INFORMATION (OR CI) CAN DETERMINE START TIME AND END TIME OF PRESENTATION OF CELL

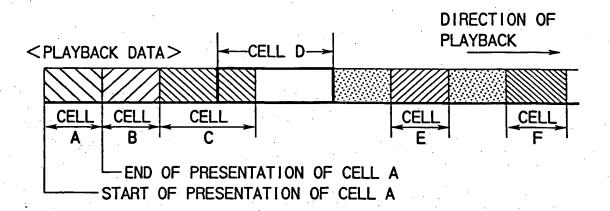


FIG. 7A

PGC INFORMATION (PGCI)

PGC#1	1081	PGC#2	1082	PGC#3 1083	
NUMBE CELLS	R OF S=3	NUMBI CELL:	ER OF S=3	NUMBI CELLS	ER OF S=5
#1	CELL A	#1	CELL D	#1	CELL E
#2	CELL B	#2	CELL E	#2	CELL A
#3	CELL C	#3	CELL F	#3	CELL D
				#4	CELL B
				#5	CELL E
CELL ID	CELL INFO.	CELL ID	CELL INFO.	CELL ID	CELL INFO.
CI_SRP #m=3	CI #n=3	CI_SRP #m=3	CI #n=3	CI_SRP #m = 5	CI #n=4

FIG. 7B

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NUMBER OF VOB IN VTS OR PLAY LIST SEARCH POINTER TABLE INFO. (PL_SRPTI) 1756 1ST VOB_ID IN VOB SEQ. OR 1ST PLAY LIST SEARCH POINTER (PL_SRP#1) 1757 PLAY LIST 2ND VOB_ID IN VOB SEQ. SEARCH POINTER OR 2ND PLAY LIST SEARCH TABLE POINTER (PL_SRP#2) 1758 (PL SRPT) VIDEO nTH VOB_ID IN VOB SEQ. MANAGER INFO. OR nTH PLAY LIST SEARCH MANAGEMENT POINTER (PL_SRP#n) TABLE (VMGI_MAT) RTR VIDEO MANAGER VTSI 1106 INFO. (RTR_VMGI) <u>은</u> (RTR_VMGI) MOVIE AV FILE INFO. VTS GENERAL (FIR. TABLE (M_AVFIT) INFO. 1751 STILL PICTURE AV FILE RTR_VMG **VOB SEQUENCE** INFO. TABLE (S_AVFIT) INFO. 1752 ORIGINAL PGC INFO. PTT INFO. (ORG_PGCI) DATA 1753 USER DEFINED PGC VTS TIME MAP NAVIGATION INFO. TABLE (UD_PGCIT) **TABLE 1754** TEXT DATA MANAGER (TXTDT_MG) MANUFACTURER'S INFO. TABLE (MNFIT) FIG. 8

						•	· · .	
F16.9A			AV	AV FILE 1401	_			
FIG. 9B			VTS (OR RTR_MOV. VRO) 1402	R_MOV. VR	1402			
	VOB#1 1461	V0B#2 1462		V(V0B#3 1763		UNRE	UNRECORDED AREA 1460
F16.9C	EXTENT# \alpha 1471	EXTENT# /3 1472	EXTENT# <i>y</i> 1473		EXTENT# 8 1474	EXTENT# € 1475		EXTENT# \$ 1470
FIG. 9D			AV	AV FILE 1401	_			
F1G. 9E	\	VTS (OR RTR_MOV. VRO/RTR_STO. VRO/RTR_STA. VRO) 1402	OV. VRO/RTF	STO. VRC	/RTR_STA	.VR0) 1402	7	
	-#180\\		<u> </u>	-#190/\	<u></u> #19	1		
	V0B#A V0 1771 17	VOB#B VOB#C 1772 1773	V08#D 1774	V0B#E 1775	V0B#F 1776	V0B#G \	V0В#Н 1778	V08#1 1779
	VIDEO 0BJECTS	AUD 10 0BJECTS	PICTURE 0BJECTS	STS	AUD10 0BJECTS	O STS	THUMBNAI	IAIL IS
F16, 9F	1012	1014			1014		1016	
		770 - N	RTR_S1	ro. vro	<rtr_sto.vro-+;<rtr_sta.vro-+< td=""><td>A. VR0-+</td><td></td><td></td></rtr_sto.vro-+;<rtr_sta.vro-+<>	A. VR0-+		

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FIG. 10A VOB FOR		PICTURE OBJECTS (OR STILL PICTURE VOB GROUP RELATING TO S_VOGI#) 1631	ECTS (OR	STILL F	CTUR	E V08 G	ROUP REL	AT ING 1	TO S_\	#190	1631
F1G 10B			VOBU	(FOR ON	E STIL	L PICT	VOBU (FOR ONE STILL PICTURE) 1641				
										l]
	V_PCK 1661	V_PCK 1662	1	V_PCK 1663	· :	SP_PCK 1681	٦ <u>-</u>	A_PCK 1691	×	A 9	A_PCK 1692
FIG. 100	I-P10	CTURE 1706	 	DUMMY DATA	•	SP_STREAM	REAM	A_STREAM	-AM	A_S	A_STREAM
			VIDEO PART	PART —					-AUDIO PART	PART-	
F1G. 10D VOB FOR		PICTURE OBJECTS (OR STILL PICTURE VOB GROUP RELATING TO S_VOGI#) 1632	ECTS (OR	STILL P	ICTUR	E V08 G	ROUP REL	ATING T	7 S O	(#190	1632
CIC 10E VOBU (ONE		STILL PICT.) 1642	.) 1642	MON	V0BU 1643				NOBIN	VOBU 1644	
710.10E								-			
FIG. 10F V. PCK	V_PCK 1664	SP_PCK 1682	A_PCK 1693	V_PCK 1665		A_PCK 1694	V_PCK 1666	V16	V_PCK 1667		A_PCK 1695

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FIG 10G VOB FOR PICTURE OBJECTS (OR STILL PICTURE VOB GROUP RELATING TO S VOGI#) 1633	OR STILL	PICTURE VOB GR	UP RELATING T	0 S_V0G1#) 1633
1				
FIG. 10H VOBU (ONE STILL PICTURE) 1645	1645	V0BU 1646	9	V0BU 1647
V_PCK V_PCK V_PCK 1669 1670	SP_PCK 1683	V_PCK V_PCK	V_PCK 1673	V_PCK
FIG. 101 1-PICTURE 1707 DUMMY 8	SP_ STREAM		DUMMY 1705	I-PICTURE 1709
VIDEO PART		VIDEO PART		←-VIDEO PART-→
FIG. 10J VOB FOR PICTURE OBJECTS (OR STILL PICTURE VOB GROUP RELATING TO S_VOGI#) 1634	A STILL	PICTURE VOB GRO	UP RELATING T	0 S_V0G1#) 1634
FIG. 10K VOBU (ONE STILL PICTURE) 1648	1648	V0BU 1649		V0BU 1650
F SP_PCK A_PCK A	A_PCK A 1698 10	A_PCK A_PCK A	A_PCK 1701	A_PCK 1702

←—AUDIO PART

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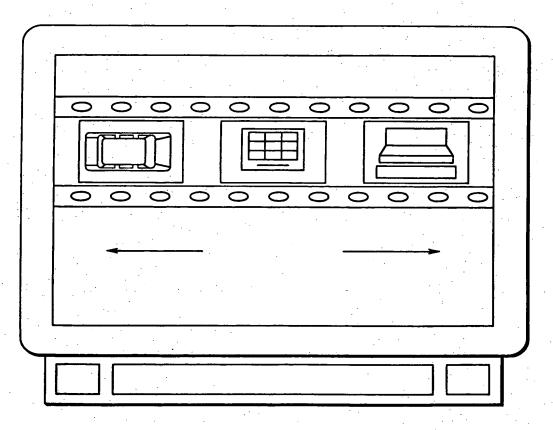


FIG. 11

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STILL PICTURE AV FILE (S_AVFIT)

STILL PICTURE AV FILE INFO. TABLE INFO. (S_AVFITI)

STILL PICT. VOB STREAM INFO. #1 (S_VOB_STI#1)

STILL PICT. VOB STREAM INFO. #n (S_VOB_STI#n)

STILL PICTURE AV FILE INFO. (S_AVFI)

STILL PICT. AD-DITIONAL AUDIO STREAM INFO. #1 (S_AA_STI#1)

STILL PICT. AD-DITIONAL AUDIO STREAM INFO. #m (S_AA_STI#m)

STILL PICTURE
ADDITIONAL
AUDIO FILE INFO.
(S_AAFI)

VOB INFO. FOR
PICT. OBJECTS
MANAGEMENT
INFO. 1721
(OR S_AVFI_GI)
SEARCH POINTER
OF VOB INFO. FOR
PICT. OBJECTS
#1 1726 (OR
S_VOGI_SRP#1)
SEARCH POINTER
OF VOB INFO. FOR
PICT. OBJECTS
#i 1727 (OR
S_VOGI_SRP#i)

SEARCH POINTER
OF VOB INFO. FOR
PICT. OBJECTS
#k 1728 (OR
S_VOGI_SRP#k)
VOB INFO. FOR

#1 1731 (OR S_VOGI#1) VOB INFO. FOR PICT. OBJECTS #i 1732 (OR S_VOGI#i)

VOB INFO. FOR PICT. OBJECTS #k 1733 (OR S_VOGI#k)

FIG. 12 #i=ANY ONE OF #1 TO #k

VOB GENERAL
INFORMATION
FOR PICTURE
OBJECTS
1736 (OR
STILL PICTURE
VOB GROUP
GENERAL INFO.
S_VOG_GI)

VOB ATTRIB.
INFORMATION
FOR PICTURE
OBJECTS
1737

VOBU MAP FOR
PICTURE
OBJECTS
1738 (OR
STILL PICTIRE
VOB ENTRES
S_VOB_ENT#)

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VOB STILL PICT. ATTRIB. ENTRY TYPE INFO. (S VOB FOR ENT TY) PICT. OBJ. NUMBER OF 1737 STILL PICT. (OR NUMBER VOBU OF VOBUs) MAP IN CORRES-FOR . PONDING PICT. VOB 1801 OBJ. (OR 1738 S VOB Ns) (S VOB INFO. OF 1ST ENT#) STILL PICT. IN CORRES-PONDING VOB 1802 VOB. INFO. OF 2ND **GENERAL** STILL PICT. INFO. IN CORRES-1736 PONDING OR VOB 1803 $S_VOG_$ INFO. OF 3RD GI STILL PICT. IN CORRES-PONDING VOB 1804

DATA SIZE OF STILL PICTURE (OR VOBU) INDICATED BY USED SECTORS 1806 (OR VIDEO PART SIZE V_PART_SZ/ AUDIO PART SIZE A_PART_SZ) DISPLAY TIME OF ONE STILL PICTURE 1807 REPRESENTED BY PLAYBACK TIME OF AUDIO PART (IF VOBU CONTAINS A PCK) OR REPRESENTED BY DISPLAY TIME OF VIDEO PART (IF VOBU CONTAINS NO A_PCK) ADDRESS OF 1ST V PCK IN VOBU 1808 (OR S_VOG_SA) SIZE OF I-PICTURE IN VOBU (INDICATED BY TOTAL BYTES) 1809 🔍 PRESENTATION START TIME S_PTM OF STILL PICTURE (V_PCK/SP_PCK) 1810 1ST SYSTEM CLOCK REFERENCE F SCR OF STILL. PICTURE (V_PCK/SP_PCK) 1811 ADDRESS OF 1ST A PCK IN VOBU 1812 AUDIO S PTM (PRESENTATION START TIME OF A_PCK) 1813 AUDIO E PTM (PRESENTATION END TIME OF A_PCK) 1814 AUDIO F_SCR (SYSTEM CK REF. OF 1ST A_PCK IN VOBU) 1815

AUDIO L SCR (SYSTEM CK REF.

OF LAST A PCK IN VOBU) 1816

PLAYBACK TIME OF AUDIO PART A_PB_TM

\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \									_
F16. 14A				YOB	B #A 1821	_			
	VOBU	VOBU 1825	×	VOBU 1826	9		VOBU	V0BU 1827	
FIG. 14B	STILL PI	FILL PICT. NO. 1	STILL	STILL PICT.	NO. 2		STILL PICT. NO.	CT. NO. h	
	STLPCT 1831	AUD 10 1841	STLPCT 1832	PCT 2	AUD10 1842	STLPCT	STLPCT 1834	AUD10	
FIG. 14C	V_PCK 1851	A_PCK 1861	V_PCK 1852	SP_PK 1848	A_PCK 1862	V_PCK 1853	V_PCK 1854	A_PCK 1863	
	CONTENTS	VTS	1ST ST IN CEI				LAST	STILL PICT.	
FIG. 14D	SPECIFIED BY CELL		V_PCK 1852	SP_PK 1848	A_PCK _1865	V_PCK 1853		A_PCK 1866	
			٠.	A			 		_
		A_PCK 1864	V_PCK 1855	A_PCK 1865	V_PCK 1856	V_PCK 1857	A_PCK \ 1866	V_PCK 1858	
F1G. 14E		AUD10 1844	STLPCT 1835	AUD10 1845	STLPCT 1836	STLPCT 1837	AUD10 1846	STLРСТ 1838	
			STILL PICTURE	CTURE		STILL PICTIBE	I CTI IRE		
			NO.		• • • •	NO. h+j-2	-2 -I		
FIG. 14F			VOBU 1828	1828		VOBU	V0BU 1829		·
F16.146				ĬŅ.	V0B #B 1822	.2			

	 	
CONTENTS (S_C1) OF CELL PLAYBACK INFO. (C1) FOR PICTURE OBJECTS 1870	EXAMPLE 1871 WITH RESPECT TO FIG.14	EXAMPLE 1872 WITH RESPECT TO FIG.14
CELL ID (CI_SRP) 1873		
TYPE INFORMATION OF CELL (C_TY) 1880		
ID INFORMATION OF VOB WITH V_PCK 1874	VOB #A	1821
STILL PICT. NUMBER 1875 IN VOB INCLUDING V_PCK OF 1ST STILL PICTURE IN CELL (S_S_VOB_ENTN)	2	1826
STILL PICT. NUMBER 1876 IN VOB INCLUDING V_PCK OF LAST STILL PICTURE IN CELL (E_S_VOB_ENTN)	h	1827
ID INFORMATION OF VOB WITH A_PCK 1877	VOB #B	1822
STILL PICT. NUMBER 1878 IN VOB INCLUDING A_PCK OF 1ST STILL PICTURE IN CELL	j	1828
PRESENTATION TIME 1879 OF EACH STILL PICTURE HAVING NO CORRESPONDING A_PCK	2 SECONDS (ONE LINE)	

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CONTENTS OF CELL PLAYBACK INFO. (CI) FOR PTT
CELL ID (CI_SRP) 1883
TYPE INFO. OF CELL (C_TY) 1882
ID INFO. OF PTT WITH V_PCK 1884
STILL PICTURE NUMBER 1885 IN PTT OF VOB INCLUDING V_PCK OF 1ST STILL PICTURE IN CELL
STILL PICTURE NUMBER 1886 IN PTT OF VOB INCLUDING V_PCK OF LAST STILL PICTURE IN CELL
ID INFO. OF PTT WITH A_PCK 1887
STILL PICTURE NUMBER 1888 IN PTT OF VOB INCLUDING A_PCK OF 1ST STILL PICTURE IN CELL
PRESENTATION TIME 1889 OF EACH STILL PICT. HAVING NO CORRESPONDING A_PCK

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STILL PICTURE AV FILE INFO. (S_AVFI) FOR PTT (CHAPTER)

PTT INFO. FOR PICT. OBJECTS MANAGEMENT INFO. 1891

SEARCH POINTER
OF PIT INFO. FOR
PICT. OBJECTS
#1 1892

SEARCH POINTER
OF PTT INFO. FOR
PICT. OBJECTS
#2 1893

PTT INFO. FOR PICT. OBJECTS #1 1895

PTT INFO. FOR PICT. OBJECTS #2 1896

PTT GENERAL INFORMATION FOR PICTURE OBJECTS 1898

VOB MAP FOR PICTURE OBJECTS 1899 Oblon, Spivak, et al.
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VOB MAP FOR PICT. OBJECTS 1899

NUMBER OF STILL PICT. (OR NUMBER OF VOBs) IN CORRESPONDING PTT 1901 (OR S_VOB_Ns)

INFO. OF 1ST STILL PICT. IN CORRESPONDING PTT 1902

INFO. OF 2ND STILL PICT. IN CORRESPONDING PTT 1903 DATA SIZE OF STILL PICTURE (OR VOB) INDICATED BY USED SECTORS 1906

DISPLAY TIME OF ONE STILL PICTURE 1907 REPRESENTED BY PLAYBACK TIME OF AUDIO PART (IF VOB CONTAINS A_PCK) OR REPRESENTED BY DISPLAY TIME OF VIDEO PART (IF VOB CONTAINS NO A_PCK)

ADDRESS OF 1ST V_PCK IN VOB 1908 (OR S_VOG_SA)

SIZE OF I-PICTURE IN VOB (INDICATED BY TOTAL BYTES) 1909

PRESENTATION START TIME S_PTM OF STILL PICTURE (V_PCK/SP_PCK) 1910

1ST SYSTEM CLOCK REFERENCE F_SCR OF STILL. PICTURE (V_PCK/SP_PCK) 1911

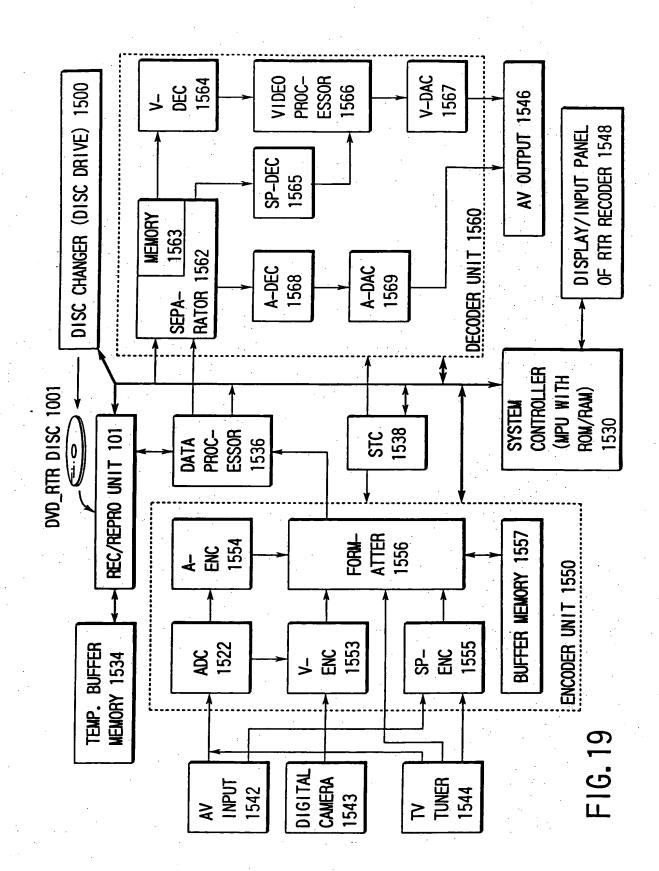
ADDRESS OF 1ST A_PCK IN VOB 1912

AUDIO S_PTM (PRESENTATION START TIME OF A_PCK) 1913

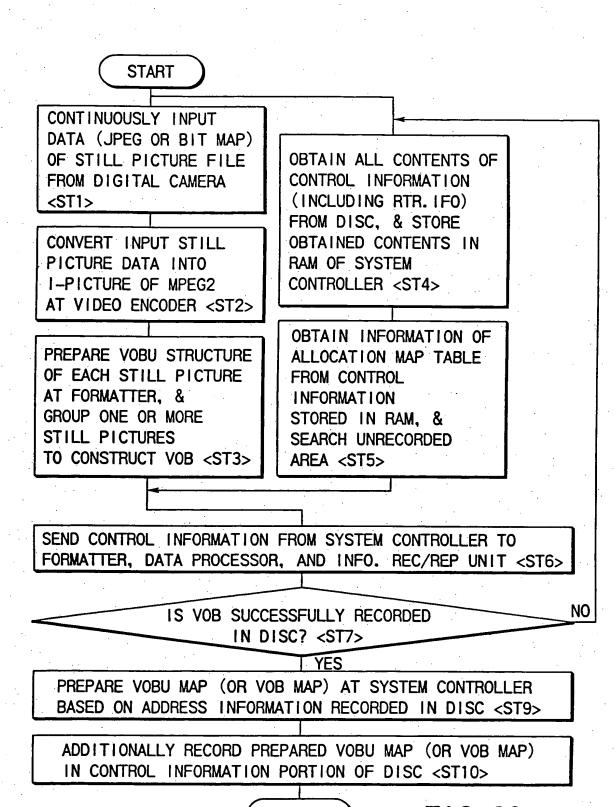
AUDIO E_PTM (PRESENTATION END TIME OF A_PCK) 1914

AUDIO F_SCR (SYSTEM CK REF. OF 1ST A_PCK IN VOB) 1915

AUDIO L_SCR (SYSTEM CK REF. OF LAST A_PCK IN VOB) 1916



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END

START

OBTAIN ALL CONTENTS OF CONTROL INFORMATION (RTR. 1FO) FROM DISC, & STORE OBTAINED CONTENTS IN RAM OF SYSTEM CONTROLLER <ST11>

OBTAIN PLAYBACK CONTROL INFO. FROM CONTROL INFO. STORED IN RAM, & INTERPRETE OBTAINED INFORMATION AS TO MANNER OF REPRODUCTION <ST12>

SEARCH PROGRAM TO BE REPRODUCED BASED ON PGC CONTROL INFO. IN RAM, OBTAIN CELL(S) IN PGC INFORMATION OF SEARCHED PROGRAM, & OBTAIN VOB_ID OR PTT_ID SPECIFIED BY CORRESPONDING CELL FROM CELL PLAYBACK INFORMATION STORED IN RAM <ST13>

OBTAIN DISC ADDRESS OF VOB TO BE REPRODUCED BASED ON VOB INFORMATION OR PTT INFORMATION STORD IN RAM <ST14>

ACCESS VOB RECORDED IN DISC BASED ON CONTROL SIGNAL FROM SYSTEM CONTROLLER TO REPRODUCE INFORMATION OF VOB, & PROVIDE REPRODUCED INFORMATION AS AV OUTPUT FOR DISPLAY <ST18>

RECEIVE ADDITIONAL INFO. INPUT BY USER WHILE DISPLAYING AV OUTPUT, & GROUP ONE OR MORE STILL PICTURES AT FORMATTER BASED ON USER-INPUT INFORMATION TO PREPARE VOB OR PTT <ST19>

RECORD INFORMATION OF VOB PREPARED BY FORMATTER <ST20>

END

. .

START

OBTAIN ALL CONTENTS OF CONTROL INFORMATION (RTR.1FO) FROM DISC, & STORE OBTAINED CONTENTS IN RAM OF SYSTEM CONTROLLER <ST11>

OBTAIN PLAYBACK CONTROL INFO. FROM CONTROL INFO. STORED IN RAM, & INTERPRETE OBTAINED INFORMATION AS TO MANNER OF REPRODUCTION <ST12>

SEARCH PROGRAM TO BE REPRODUCED BASED ON PGC CONTROL INFO. IN RAM, OBTAIN CELL(S) IN PGC INFORMATION OF SEARCHED PROGRAM, & OBTAIN VOB_ID OR PTT_ID SPECIFIED BY CORRESPONDING CELL FROM CELL PLAYBACK INFORMATION STORED IN RAM <ST13>

OBTAIN DISC ADDRESS OF VOB TO BE REPRODUCED BASED ON VOB INFORMATION OR PTT INFORMATION STORD IN RAM <ST14>.

ACCESS VOB RECORDED IN DISC BASED ON CONTROL SIGNAL FROM SYSTEM CONTROLLER TO REPRODUCE INFORMATION OF VOB, & PROVIDE REPRODUCED INFORMATION AS AV OUTPUT FOR DISPLAY <ST18>

ACCESS VOB #A RECORDED IN DISC TO PROVIDE STILL PICTURE INFORMATION OF VOB #A <ST16>

ACCESS VOB #B IN DISC TO REPRODUCE AUDIO INFORMATION OF VOB #B, & PROVIDE AUDIO INFO. OF VOB #B AND STILL PICTURE INFO. OF VOB #A AS AV OUTPUT FOR STILL PICTURE DISPLAY WITH SOUND <ST17>

END

i . . i .

USER DEFINED PGC INFO. TABLE INFORMATION (UD_PGCITI) RTR_VMG USER DEFINED PGCI SEARCH RTR VIDEO MANAGER POINTER #1 (UD_PGCI_SRP#1) INFO. (RTR_VMGI) MOVIE AV FILE INFO. USER DEFINED PGCI SEARCH TABLE (M_AVFIT) POINTER #n (UD_PGCI_SRP#n) STILL PICTURE AV USER DEFINED PGC INFO. #1 FILE INFO. TABLE (UD_PGCI#1) (S_AVFIT) ORIGINAL PGC INFORMATION USER DEFINED PGC INFO. #n (ORG_PGCI) (UD_PGCI#n) USER DEFINED PGC CONTENTS OF PGCI (ORIGINAL INFORMATION TABLE PGCI OR USER DEFINED PGCI) (UD_PGCIT) PGC INFORMATION #1 (PGCI#1) TEXT DATA MANAGER PGC GENERAL INFO. (PGC_GI) (TXTDT_MG) PROGRAM INFO. #1 (PGI#1) MANUFACTURER'S INFO. TABLE (MNFIT) PROGRAM INFO. #m (PGI#m) START ADDRESS OF CELL INFO. SEARCH POINTER #1 CELL INFO. (CI_SA) (CI_SRP#1) CELL INFO. SEARCH POINTER #n MOVIE CELL INFO. (CI SRP#n) (M_CI) CELL INFO. #1 (CI#1) OR STILL PICTURE CELL INFO. #n (CI#n) CELL INFO. (S_CI)

STILL PICTURE CELL INFO. (S_CI)

STILL PICTURE CELL GENERAL INFORMATION (S_C_GI)

STILL PICT. CELL ENTRY POINT INFORMATION #1 (S_C_EPI#1)

STILL PICT. CELL ENTRY POINT INFORMATION #n (S_C_EPI#n)

FIG. 24

CONTENTS OF S_C_GI

FIELD NAME	CONTENTS
RESERVED	RESERVED
C_TY	CELL TYPE
S_VOGI_SRPN	S_VOGI SEARCH POINTER NUMBER
C_EPI_Ns	NUMBER OF CELL ENTRY POINT INFO.
S_S_VOB_ENTN	START S_VOB_ENT NUMBER
E_S_VOB_ENTN	END S_VOB_ENT NUMBER

FIG. 25

CONTENTS OF S_C_EPI

FIELD NAME	CONTENTS
EP_TY	ENTRY POINT TYPE
S_VOB_ENTN	S_VOB_ENT NUMBER
PRM_TXT1	PRIMARY TEXT INFORMATION

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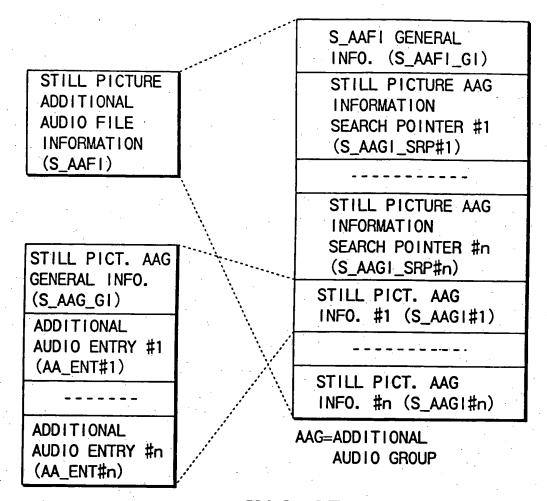


FIG. 27

CONTENTS OF S_AAG_GI

	· · · · · · · · · · · · · · · · · · ·
FIELD NAME	CONTENTS
AA_ENT_Ns	NUMBER OF AA_ENT
S_AA_STIN	STILL PICTURE ADDITIONAL AUDIO STREAM INFORMATION NUMBER
S_AAG_SA	START ADDRESS OF THIS AAG IN STILL PICTURE ADDITIONAL AUDIO FILE

CONTENTS OF AA_ENT

FIELD NAME	CONTENTS
AA_TY	ADDITIONAL AUDIO TYPE
AA_SZ	SIZE OF ADDITIONAL AUDIO STREAM
AA_PB_TM	PLAYBACK TIME OF ADDITIONAL AUDIO STREAM (MEASURED BY VIDEO FIELDS)

FIG. 29

CONTENTS OF S_VOG_GI

FIELD NAME	CONTENTS
S_V0B_Ns	NUMBER OF S_VOBs
S_VOB_STIN	STILL PICTURE VOB STREAM INFORMATION NUMBER
FIRST_VOB_REC_TM	TIME WHEN THE FIRST VOB IN THIS VOB GROUP WAS RECORDED
LAST_VOB_REC_TM	TIME WHEN THE LAST VOB IN THIS VOB GROUP WAS RECORDED
S_VOG_SA	START ADDRESS OF THIS VOB GROUP IN STILL PICTURE AV FILE

FIG. 30

CONTENTS OF S_VOB_ENT (TYPE 1)

FIELD NAME	CONTENTS
S_VOB_ENT_TY	STILL PICTURE VOB ENTRY TYPE
V_PART_SZ	SIZE OF VIDEO PART

CONTENTS OF S_VOB_ENT (TYPE 2)

FIELD NAME	CONTENTS
S_VOB_ENT_TY	STILL PICTURE VOB ENTRY TYPE
V_PART_SZ	SIZE OF VIDEO PART
A_PART_SZ	SIZE OF ORIGINAL AUDIO PART
A_PB_TM	PLAYBACK TIME OF AUDIO PART (DESCRIBED IN VIDEO FIELDS)

FIG. 32

CONTENTS OF S_VOB_ENT (TYPE 3)

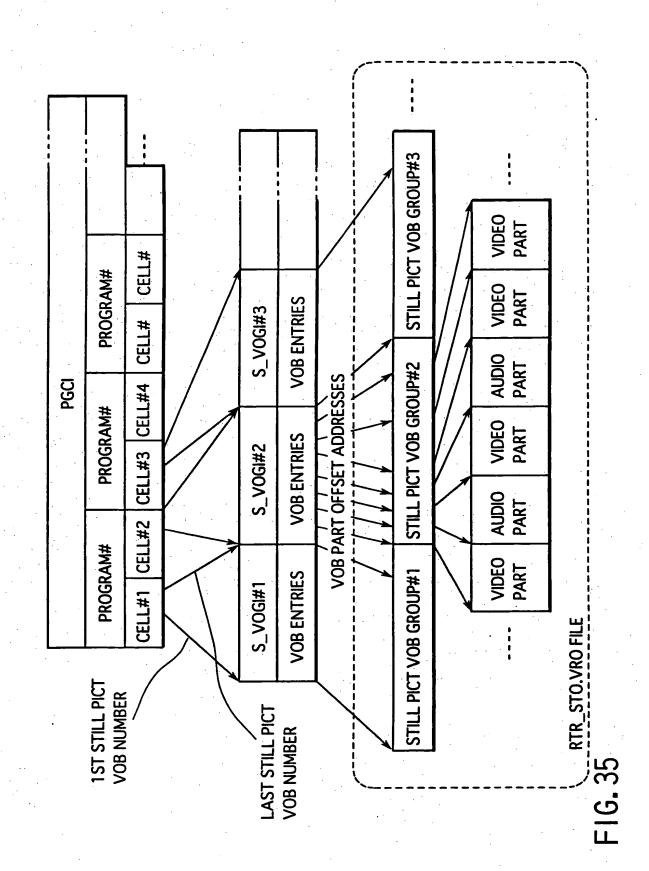
FIELD NAME	CONTENTS
S_VOB_ENT_TY	STILL PICTURE VOB ENTRY TYPE
V_PART_SZ	SIZE OF VIDEO PART
S_AAGN	ADDITIONAL AUDIO GROUP NUMBER
AA_ENTN	AA_ENT NUMBER

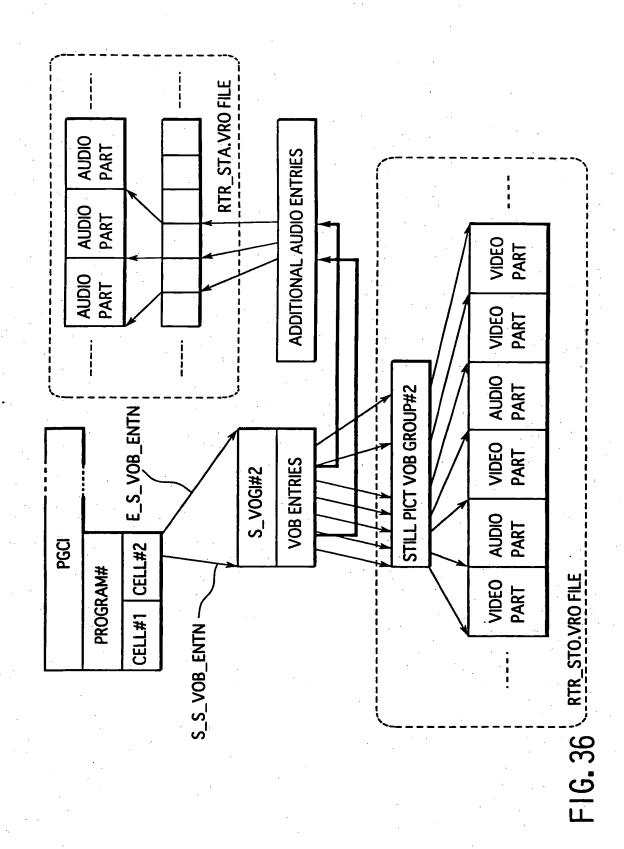
FIG. 33

CONTENTS OF S_VOB_ENT (TYPE 4)

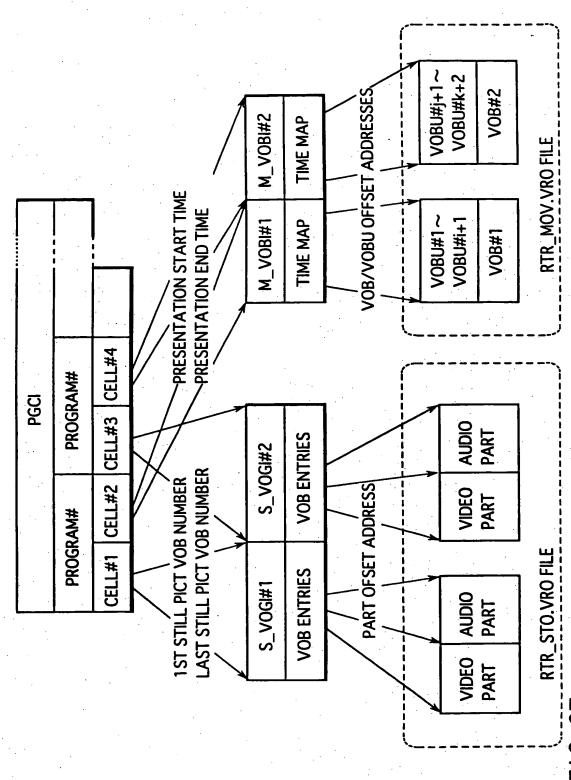
CONTENTS
CONTENTS
STILL PICTURE VOB ENTRY TYPE
SIZE OF VIDEO PART
SIZE OF ORIGINAL AUDIO PART
PLAYBACK TIME OF AUDIO PART
ADDITIONAL AUDIO GROUP NUMBER
AA_ENT NUMBER

•



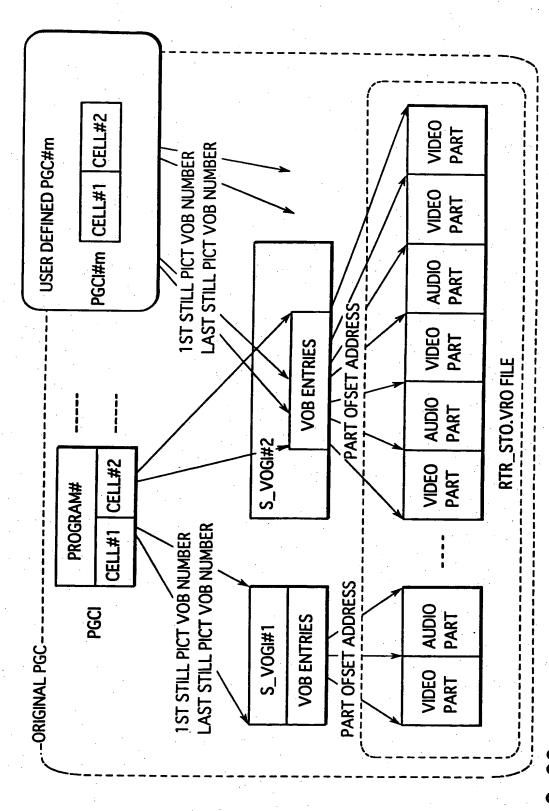


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